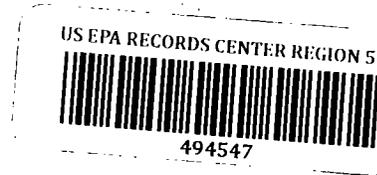


July 13, 1988

Mr. Thomas A. Drew
Weston
Geosciences Department
Weston Way
West Chester, PA 19380



Dear Mr. Drew;

Enclosed are copies of the laboratory results for MW 1, MW 2, MW 3, MW4, and MW5. These samples were collected on April 13, 1988. The remaining groundwater monitor and production well samples were rejected by the laboratory due to violations of QA/QC protocol.

Comments regarding the proposed changes in the Findings and Orders are being reviewed by the Division of Groundwater in the Central Office. Once returned, they will be forwarded to your office through Marty Hilovsky.

Sincerely,

Clarissa Gereby
Geologist
Division of Ground Water

cc: Marty Hilovsky, IWW, NEDO
Christopher Khourey, DGW, NEDO

SEMI-ANNUAL SAMPLING PLAN
TIMKEN COMPANY
CANTON, OHIO FACILITY

JUNE 1988

<u>Sampling Locations</u>	<u>Analytical Parameters</u>
1. Monitor Wells #1, 2, 3, 4, 5, 7, 9, 10, 11 and 12 Production Wells #15, 16, 19 and 30	Conductivity, chloride, total dissolved solids, sulfate, dissolved barium, dissolved calcium, dissolved lead, dissolved manganese, dissolved magnesium, dissolved sodium nitrate, AS
2. Monitor Wells #1, 3, 9, 10 and 12, 7 Production Wells #15 and 30	Purgeable aromatics and purgeable halocarbons

- Dissolved: *Handwritten notes*
- NO₃ not on list

AS

Clipping info for Bill Flady

COD
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SUMMARY OF GROUND WATER ANALYTICAL DATA

TIMKEN COMPANY
CANTON, OHIO FACILITY

Analyte (mg/l)	PW-19 (1)	PW-19 (2)	PW-19 (3)	PW-30 (1)	PW-30 (2)	PW-30 (3)
Arsenic	*	*	*	0.003	*	*
Barium	*	*	*	*	*	*
Cadmium	*	*	*	0.0002	*	*
Calcium	137.0	142.0	140.0	182.0	191.0	198.0
Chromium	*	*	*	*	*	*
Iron	5.21	1.34	NT	3.37	2.89	NT
Lead	*	*	*	INT	*	0.005
Mercury	NT	*	*	NT	*	*
Magnesium	31.6	27.7	29.6	38.5	32.4	37.7
Manganese	0.37	0.286	324.0	0.545	0.458	0.522
Potassium	2.4	3.47	*	3.6	6.32	*
Selenium	*	NT	NT	*	NT	NT
Sodium	31.0	28.0	25.4	95.0	102.0	83.6
Alkalinity	275.0	NT	NT	250.0	NT	NT
Total Organic Carbon	NT	1.1	NT	NT	3.8	NT
Chemical Oxy- gen Demand	*	NT	*	45.0	NT	*
Chloride	108.0	132.0	94.0	182.0	196.0	351.0
Nitrate	*	*	NT	*	0.8	NT
Ammonium	0.23	NT	NT	0.29	NT	NT
Phosphorus	*	NT	NT	*	NT	NT
Total Dissol- ved Solids	618.0	600.0	570.0	1060.0	1000.0	919.0
Sulfate	86.0	90.8	86.1	284.0	302.0	254.0
Cyanide	NT	*	NT	NT	*	NT
Fluoride	NT	0.17	NT	NT	0.16	NT
Conductivity (umhos/cm)	NT	900.0	425.0	1000.0	1250.0	1050.0
pH (pH units)	NT	7.5	7.5	6.18	7.4	7.4
Temperature (°C)	NT	20.0	15.0	20.0	19.0	19.0

- (1) Analytical data from Ohio EPA for July 1987 sampling event.
 (2) Analytical data from WESTON for July 1987 sampling event.
 (3) Analytical data from WESTON for April 1988 sampling event.

* - Not Detected NT - Not Tested INT - Interference - no reported value

Note: Ohio EPA data represents total metal concentrations
 WESTON July 1987 data represents soluble metal concentrations
 WESTON April 1988 data represents total metal concentrations, unless noted.

SUMMARY OF ANALYTICAL DATA
VOLATILE ORGANIC COMPOUNDS

TIMKEN COMPANY
CANTON, OHIO FACILITY

Analyte (ug/l)	MW-01 ⁽¹⁾	MW-01	MW-02 ⁽¹⁾	MW-02	MW-03 ⁽¹⁾	MW-03	MW-04 ⁽¹⁾	MW-04	MW-05 ⁽¹⁾	MW-05	MW-07 ⁽¹⁾	MW-07
Benzene	*	*	0.2	*	*	*	*	*	*	*	*	*
Chloroethane	*	*	*	*	*	*	*	*	*	*	*	*
Toluene	*	*	0.2	*	0.4	*	0.2	*	*	*	0.6	*
1,1-Dichloroethane	*	*	*	*	*	*	*	*	*	*	*	*
Trans-1,2-Dichloro- ethene	*	*	*	*	*	*	*	*	*	*	*	*
1,2-Dichloroethane	*	*	*	*	*	*	*	*	*	*	*	*
Trichloroethene	*	*	*	*	*	*	*	*	*	*	*	*
Methylene Chloride	*	*	*	*	*	*	*	*	*	*	*	5.1
Styrene	*	*	*	*	*	*	0.2	*	*	*	*	*
1,2 Dimethylbenzene	*	*	*	*	0.2	*	*	*	*	*	0.2	*
1,2 and/or 1,4 Dimethylbenzene	*	*	0.1	*	0.2	*	0.2	*	*	*	0.3	*

(1) Analytical data from Ohio EPA for July 1987 sampling event.

Other analytical data from WESTON for April 1988 sampling event.

* - Not Detected

SUMMARY OF ANALYTICAL DATA
VOLATILE ORGANIC COMPOUNDS

TIMKEN COMPANY
CANTON, OHIO FACILITY

Analyte (ug/l)	MW-09 ⁽¹⁾	MW-09	MW-10 ⁽¹⁾	MW-10	MW-11 ⁽¹⁾	MW-11	MW-12 ⁽¹⁾	MW-12	PW-15 ⁽¹⁾	PW-15	PW-16 ⁽¹⁾	PW-16
Benzene	*	*	0.4	*	*	*	*	*	*	*	*	*
Chloroethane	*	*	*	*	*	*	*	4.9	*	2.1	*	*
Toluene	*	*	*	*	*	*	0.2	*	0.1	*	*	*
1,1-Dichloroethane	43.5	53.0	19.5	22.0	*	*	37.3	70.0	*	*	*	*
Trans-1,2-Dichloro- ethene	*	5.8	2.0	10.0	*	*	*	25.0	*	*	*	*
1,2-Dichloroethane	*	*	1.4	3.0	*	*	0.4	*	*	*	*	*
Trichloroethene	*	*	6.1	4.1	*	*	*	*	*	*	*	*
Methylene Chloride	*	*	*	*	*	*	*	*	*	*	*	*
Styrene	*	*	0.1	*	*	*	*	*	0.1	*	*	*
1,2 Dimethylbenzene	*	*	*	*	*	*	*	*	*	*	*	*
1,2 and/or 1,4 Dimethylbenzene	*	*	*	*	*	*	0.1	*	*	*	*	*

(1) Analytical data from Ohio EPA for July 1987 sampling event.

Other analytical data from WESTON for April 1988 sampling event.

* - Not Detected

SUMMARY OF ANALYTICAL DATA
VOLATILE ORGANIC COMPOUNDS

TIMKEN COMPANY
CANTON, OHIO FACILITY

Analyte (ug/l)	PW-19 ⁽¹⁾	PW-19	PW-30 ⁽¹⁾	PW-30
Benzene	*	*	*	*
Chloroethane	*	*	*	*
Toluene	*	*	*	*
1,1-Dichloroethane	*	*	5.6	6.7
Trans-1,2-Dichloro- ethene	*	*	*	2.3
1,2-Dichloroethane	*	*	*	*
Trichloroethene	*	*	*	*
Methylene Chloride	*	*	*	*
Styrene	*	*	*	*
1,2 Dimethylbenzene	*	*	*	*
1,2 and/or 1,4 Dimethylbenzene	*	*	*	*

(1) Analytical data from Ohio EPA for July 1987 sampling event.
Other analytical data from WESTON for April 1988 sampling event.
* - Not Detected